

## ACE2 Mouse, HEK293 Recombinant

### Product Data Sheet

**Type:** Recombinant protein  
**Source:** HEK293 cells  
**Species:** Mouse

**Cat. No.:**  
RAG0193050 (50 µg)  
RAG0193150 (3 x 50 µg)

### Description

Recombinant mouse Angiotensin-converting enzyme 2 (ACE2) expressed in HEK293 cells. Extracellular domain of mouse ACE2 (aa 18-740) are fused at the C-terminus to a FLAG®-tag. Molecular weight: ~100kDa (SDS-PAGE); ~190kDa (Dimer, by SEC).

### Introduction to the Molecule

Angiotensin-converting enzyme 2 (ACE2) is an ectoenzyme (carboxypeptidase) with an extracellular catalytic domain that predominantly localizes at the plasma membrane and is thereby able to hydrolyze circulating peptides. ACE2 has approximately 42% sequence identity with ACE, and its cytoplasmic and transmembrane domains show 48% homology to the protein collectrin that plays a critical role in the amino acid absorption of the kidney. ACE2 converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. ACE2 is involved in the regulation of systemic blood pressure and has direct effects on cardiac functions. It is expressed predominantly in endothelial cells of the lung, gut, heart and kidney. ACE2 together with the protease TMPRSS2 acts as a functional receptor for SARS coronavirus as well as for the new highly pathogenic coronavirus, 2019-nCoV/SARS-CoV-2, which is cause for pneumonia COVID-19. It has been shown that human recombinant soluble ACE2 can significantly block early stages of SARS-CoV-2 infections.

### Other Names

Angiotensin-converting enzyme 2, ACE2, hACE2, ACE-related carboxypeptidase, Angiotensin-converting enzyme homolog, ACEH, Metalloprotease MPROT15

### Purity

≥ 95%

### Endotoxin

<0.01 EU/µg (LAL test)

### Formulation

1mg/ml after reconstitution. Lyophilized. Contains PBS.

### Reconstitution

Reconstitute with 50 µl endotoxin-free water.

### Shipping

Ships on regular ice packs. Upon receipt, store the product at the temperature recommended below.

### Storage, Stability/Shelf Life

Stable for at least 6 months after receipt when stored at -20°C.

After opening, prepare aliquots and store at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap.

### Usage

BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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